

Dragon — write on

Dragon DOS First Aid

Dragon answers

Adventure Trail



DRAGON Contents

News Eurohard and Compusense, Design De-

Software Review Dragon Writes

Dragon DOS

Open File

Competition Corner 34

Ket Trillogy Offer

Editorial EUROHARD, the Spanish company which bought the rights to mercularture the Dragon, has appointed North London-based Computerse as the

Education Merico. President of Eurohard SA, has gone on record on saying that he sees the future role of the Doscon as primarily an Test Derychal of Computerise endorses that viow. He said that his company will not be importing the Dragon 22, and instead will be pushing the Dragon 54 with disk drives as an entry level business machine. His view is that the Dragon is dead as a games machine. Compuserse is labbying Eurohard for the development of a new generation of Dragon micros and peripherals, bissed towards the

Eurohard's plans for the future include a 128K machine, networking and hard disks, all of which seem aimed more at the serious rather than On the other hand, while software for the Dragon has been harder to mail-order market, as a browse through the advertisements in Dreson Some companies have moved into the Dragon market after Dreson Data

Eurohard and Compusense may be right, Portuga the future for Dragge seem to be large numbers of existing Dragon corners who want pamos.

Letters On your uppers assembly language of low to boot he Ever ragonguest

Software Top 10 3 (3) Chuckle Egg. I-I Chess.....

voure gram writing...

Get this into an envelope

If the programs you are writing involve opinionized parishes, you have two schools, a voice headed; or is Sochmater. Obeyondry will write to consider the yout free Sochmater lierature and find connect about their or salor jet formation and find connect about their visible jet formation profiles in their writhfee. or take two parishings of their programs of their salor jet formation.

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6 Dragon User May 1985

Eurohard — plans for the Dragon TO ENERGY IS to start. That is a resease income and the control of the control



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Football

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79, 29, 81, 80, 23, 1, 29, 10, 66, 77,



LINGS CHARGE TEACHER

10 RDH DAMAGTER DESIGNER FOR USE WITH 'WRITER' EXTENSION INTEMPERTER BY PHIL BROOKS, 104 BARBATES, LEDMINSTER, HEREFORESHINE.
20 DIN 184(10), 8L(10); 8L=8TRINGS(18,52)

20 MILEGIOS, BLIGHTEBO, "S 30 PRIDE 4, 1 PDLSHWRITEBO, "S 40 BET(0,2)-(6,8), CS, 8:SET (10,2)-(16,8), EL, S:HRITEBO, "S 50 WRITEBIISZ," L. Redesion a character DESIGNER';

TO WRITERIOS, "2. Display the full character set"; 50 WRITERIOTS, "Please select the option you require by pressing the appropriate key." 70 DMS-INKEYS, IT DMS-" OR DMS-(") OR DMS-("2"THEN TO ELSE OP-WALLOWS) OR BOTTO 100, 200

L(OPHISON OP BOTO 100,500 100 PCLS 110 NP=3B40:NRITEB1536,"Please input the ABCII code for the character you wish to change"; 120 GBLS 610

130 FCLS 140 INRITE @ 38, "CHARACTER DESIGNER": 150 FOR Y=16 TO 112 STEP G.LINE(8,Y)-(72,Y), FSET:NEXT Y 160 FOR X=8 TO 72 STEP G: LINE(X,16)-(X,112), FSET:NEXT X

100 MRITESPO6, "the arrow keys":
190 MRITESPO6, "the arrow keys":
190 MRITESPO6, "the arrow keys":
200 MRITESPO6, "the arrow keys":
200 MRITESPO6, "the crow k

200 WRITERIOSS, "point, "C" to clear"; 210 WRITERIOSS, "it"; 220 WRITERIOSS, "Press "E" to enter"; 230 WRITERIOSS, "design into memory,"; 240 WRITERIOSS, "18" to abandon design"

250 CBS="ABCII"+STRE(AB)+" at present looks like " 260 MRITEB4160,CDS 270 LINE(119,141)-(128,154),PSET,B 280 CHS=CHRE(AS):WRITEB4559,CHS

300 PUT(X,Y)-(14-6,Y+6),CS,PSET 310 PUR T-1 TO 30-NEXT 320 IF FL-0 THEN PUT(X,Y)-(X+6,Y+6),BL,PSET ELSE PUT(X,Y)-(X+6,Y+6),BL,PSET ELSE PUT(X,Y)-(X+6,Y+6),BL,PSET

330 TER T-1 TO 3018EXT 340 RRS-18KEVS-1F RSS-"THEN 300 350 IF RSS-"S" THEN PUT(K,Y)-(X-6,Y-6),RL,PRESET BLSE IF RSS-"C" THEN PUT (X,Y)-(X-6,Y-6),BL,RS-"S"

360 IF RRS="E" THEN 420ELSE IF RRS="A" THEN 50

370 DRS-1MEXYS

300 X=1-08-(DEDC(344)+223)+08-(FEEX(343)+223)+1F E)+65 THEN X=0 ELS

E IF X<0 THEN 18-65

EVEN 18-65 THEN X=10

EVEN 18-65 THEN X=10

400 IF F0EX(TXT)=30

400 IF

420 PS=31292+12*65 430 PDR Y=20 TO 108 STEP 8 440 X=63:89=0 450 PDR CT=0 TD 7 450 IF PDDINT(X,Y) ()0 THEN 8W=8W+2*CT

400 IF PPOINT(X,Y) CO THEN BY=BY+2* 470 X+T-BINEXT CT 480 PCNE PS,BVIPS=PS+1:NEXT Y 490 SCTS 50 500 PPDE4.1:PC.R=SCREENI.1

250 PMILES, 1PCLS:SCREEN[,] \$10 MMITESO, TDISPLY may be started and", "stopped by pressing the \$594c0bar" \$20 00080570:FOR CT=0 TO 122

330 CT#=STR*(CT)*" "INCITE CT#; 340 CH#=CHENECTI HERTE CH#, 350 HD#=INCIT#: HD#=" "THEN 808U8 590 560 NEXT CT:NOITE" 370 NEITE"Press spacebar to continue";

580 BDSUB590:GDTO 50
590 RTS-INKE'8:IF RTS-" THEN RETURN ELSE 590
400 REN ***SURROUTINE TO INPUT A TEXT STRING IN HI-RES***
410 WRITEBWAP, """: REN**SET POSITION FOR DISPLAYING INPUT**

400 INSETT REPORTED HILL ROLD THE FIRM. INSUT STRINGER
400 INSETT REPORTED HILL ROLD THE FIRM. INSUT STRINGER
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270 YM-MN-22413 (DMETTERM, "-6")
200 MRTTERMS, "Fresh of 1")
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200 MRTTERSON, "Fresh -52-4")
310 FOR X--7 TO 6-0 STEF O, COLOSSUSSON MEXT X
310 FOR X--7 TO 6-0 STEF O, COLOSSUSSON MEXT X

0 0070300 0 Ye2-2434K-4 0 KK-124-204X YY-150-44Y 0 PGET 0X, YY, 51 0 RETURN 0 WEITDRIJPO, "when y=0"1

io willicelifo, "when you"; o willicelifo, "n = 4"; o willicelifo, "n = n = 1"; o berlicelifo, "to continue"; o berlicelifo, "to continue"; o commence

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ADD MRTERFY-72-16,"2" ADD LINE(127,80-107,821,FEET ADD LINE(127,80-1114,851,FSET),[NE-()22,721,FSET),[NE-(LAB,721, FSET ADD LINE(127,851-1114,851,FSET),[NE-()22,721,FSET),[NE-(LAB,721, FSET

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Correcting the faults and problems with Dragondos

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Of these problems and propose solution (refloid halo been naming speciedly) or to an options (think) for not advocable to an options (think) for not advocable without the soprome, three is no abtenuise. The net of the shole has been aspected in the same. Faults, where the system persons errorecome the error without manual refloids. The same that the same problems where it is opalished to eversoom the error without manual problems, where it is opalished to eversoom the error without manual problems, where it is opalished to a problems.

med of information not previded in the manual, and Lack of Information, where tacilides exist that are not decumented. In what follows, a single sentence description of the error is given followed by omplification of the cross and effects of the error together with a single rest, it repolately, and a patch to connect the every.

FAULTS

Pauli 1: USR99 address is corrupted and Orline 4 is not set to "unused" at RESET.

These two faculty caused by a single pronounce byte in the RESET intelligence sequence. As a result of the error, any attempt to see the USR99 becomes to

erroriscus byte in the RESET initialization sequence. As a result of the error, any attempt to use the USFDD function before setting the address will cause program corruption rather than "TO error, while a sharinge of data format from single sided to sharing of data format from single sided to

Patch: +1927 21

Fault II: Filename validation exits to
BASIC error routine.

This error only affects machine users, as calling the file specific validation routine will sold to BASIC validation routine will sold to BASIC

Test: A - USPENIA | Fracts - OGEF | Fauts : OGEF | Fauts : System "hange" if in graphics mode and drive not ready.

This ency occurs because the system best for graphics mode (fire some on lergest reason) and, if set, waits for an interpot which connot occur. This can be invited by encoring a dark is always available when in graphics mode (fire system) and the property of the pro

Fault 2: Directory hack 16 update talharm --invalid an out predictable.

An extra reliable are not predictable.

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wise presented
Paskel + 2771 26 21
+ 2774 50 21
+ 2774 50 24
Frest 4: Track 99 sector 36 is corrupted
when files and killed.
This fault is only encountered when
using double-slade 30 sixx disks, Direc-

00 Stock dieses. Delete contains a "sale imperior contains a "sale imp

So totally eliminate this taut, but the pile dischard will allow 10 files to be a formation of the control of the control

error code in the 8 accumulator the

Fault 7: Export in freeing a disk buffer

Patch: +1297 27 02 67 41

1982 23 04 81 84 23 04

DRAGONOOS sign-on message, in or to gain sufficient space in the DRSOM. Test: FORI-1 TO 19: PRINT 1: CREATE "FILE" + CHRS



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GOVERNMENT

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+0F9C 6D 60 OF 45 27 04 OF 47 30 00 6F 14 BD PRINT FORE Prefer LIDON AT FE 41D90 DD 50 +1096 DO Test: AS-"TILE DAT" : FWRITE Fault 9: CLOSE pleasys closes all files. AS TEST : KILL AS PRIVATE AS: "MEXT LINE" 41770 27 AT +1770 27 AZ +1790 20 00 12 +170E 20 EB 12 LING PORE SHISE AND PORE SHISE SHEEP PORE SHISE AND PORE SHISE SHIP FREAD "FILE" AS - PRINT AS : INPUT BS : FREAD TPILET AS PRINT AS DES 2 Pately +000E SE DE BA BD 50 ES TE 83 TI A7 CO 10 6D - 1ACS 05 8D D6 F8 29 FREAD "FILE": AS : PRINT +00AE BD C1 65 34 02 22 52 29 AS : CLOSE +-1 : FREAD -1EAO DA BO Permit AFEE M 56 OF 80 TO Problem 6: "BACKUP" to an unformat-+ GESC 95 7E DO 29 35 D6 Problem 3: "SAVE" can create a file 156FC 00 +1788 50 2F FC 6F 66 11760 OU 27 10 04 +1EA3 D6 F8 07 88 +1EAS DO FO DY BE ED 22 DD E +0004 12 12 -DOONT with \$140F set to 1, to output Test: SAVE Patch: + 079E 7E FE FE -1552 SO 16 42 C4 86 Petch: +8700 20 23 Problem 4: Files "Killed" within a +71E 20 00 +724 34 64 4F 1F 89 00 Problem 1: LOCILOF/FREE functions





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DRAGON **OPEN FILE**

Flook

LISTING ONE - BASIC LISTING



DATA 7F. 10. 86. 7F. 12. 27. 0E. 8E. DATA 7F. 0A. A6. 84. 8D. 38. A7. 80 DATA 8C. 7F. 0C. 26. F5. 7E. 9D. 3D DATA 34. 32. 86. 7F. 11. 81. 01. 26 300 DATA 11.9E.88.8C.05.FF.25.04 310 DATA 8D. 22. 20. 0F. 35. 02. 34. 02 240 DATA 22.09.81.3F.23.03.80.40 250 DATA 39, 88, 40, 39, 8E, 7F, OA, 30 370 DATA OC. 21, AB, EO, 10, BF, 7F, OC 380 DATA 10, DE, 7F, 08, 21, A6, E0, 10 390 DATA DF, 7F, 00, 00, 03, FF, 22, 03 400 BATA 7F, 7F, 12, 39, 00, 00, 00, 00 410 DATA 00, 00, 00, 00, 00, 00, 00 IN DATA" : STOP

120 DATA 7F, 7F, 12, 8E, 7E, 64, 8F, 01 140 DATA 68, 8E, 7F, 40, 8F, 01, 70, 8F 150 DATA 7E, 81, 8F, 01, 00, 8A, 7F, 83 180 DATA 10. EF, 7F, 0E, 9D, 9F, 27, 22 190 DATA DE. 7F. 0E. A6. 01. 91. 46. 26 210 DATA 11, 90, 9F, 8D, 90, 3D, 8E, 7F 220 DATA 08, BF, 7F, OA, 9E, BB, BF, 7F

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LISTING TWO - ASSEMBLY LISTING

| The second sec RTS 7EFB 10 BF 7F 08 STY STORE

7E7D 29 RTS 7EFB 10 BF 7F 08 STY STORE 7E7E 7E 90 3D EXIT JMP 36925 7EFF 8C 03 FF CMPXC1023 7676 76 70 30 EXIT JMP 36925 7667 8C 03 FF CMPXCLO2. TESH 7C 7F 10 INTERMPT INC NOINT 7F04 22 03 BHI JMP 7604 D6 7F 10 LBB NOINT 7F04 7F 7F 12 CLR FOKE

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148 PRINT 8 304, "ARE YOU GURE?": 158 YE-INGEYRIP YRC>"Y" THEN 138 146 PRINT 178 PRINT TO.K. HERE GOES." 108 DEKINIY 1,148 178 CLE 280 PRINT "I HOPE YOU HAD THE RIGHT

> 8 PRINT "BECAUSE NOW IT IS CLEAN!!" 8 PRINT "DO YOU MANT TO DO ANOTHER 5":



Dum

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10 REM PUT SWITCH 2 TO ON 20 PMODE 4,1:SCREEN 1,0

40 PRINTZ-2.CHR# (9); CHR# (9); 30 PRINTZ-2.CHR# (27); "C':CHR# (20)#60 I); CHR# (30)#60 II; CHR# (30)#60 II

S0 PRINTE-2, CHR# (M) | 90 NEXT X 100 PRINTE-2, CHR# (27) | CHR# (40) 110 PRINTE-2, CHR# (10) | 120 Y=**0:[F Y=>191 THEN END EL

128 Y=Y=0:IF Y=>191 THEN END ELSE 60TO 40 130 PHODE 4,1:SCREEN 1,0:80TO 130 SCREEN DUMP LIBITING 2

N DOMP LISTING 2

20 A-21999 DE FOR N-1 TO 14:READ AM AM POKE A-N, VAL ("SH'-AM):NEXT SM DATA 8E, 06, 00, A6, D0, A3, A7, 1F, 1E, 00, 26, P6, 37



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Losing memory with Dragon DOS

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> puls you in ROM mode, and puts you in RAM mode. It #327°

RAM mode

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AMPP48.0 to stop the disk

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